

**METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR
IMPLEMENTING DYNAMIC COSIMULATION**

Abstract of the Disclosure

Dynamic cosimulation is implemented using a cosimulation bridge for
5 data exchange between a primary simulator and a secondary simulator, and
a plurality of user selected optimization control signals defined over the
cosimulation bridge. At least one user selected optimization control signal is
identified for disabling the cosimulation bridge. The primary simulator and
secondary simulator are dynamically disengaged for ending data exchange
10 responsive to disabling the cosimulation bridge. Responsive to optimization
control signal going inactive, the primary simulator and secondary simulator
are dynamically re-engaged for data exchange. The optimization control
signals include a single sided disable; a two independent disable; a
functional OR disable; a functional AND disable, and suspend signals. The
15 single sided disable and the two independent disable enable disabling one
side of the cosimulation bridge and not the other side. Both sides of the
cosimulation bridge are disabled together using the functional OR disable
and the functional AND disable.